A FLYING MARHINE AT CAST THAT REALLY FCIES



A Journal Reporter Succeeds in Flying with One of Inventor ilienthal's New Flying Machines.

he perfected a soaring apparatus, construct-ed upon the principle of a bird's wing. It that has endeavored to imitate. will carry a man of average weight short distances, provided a start is made from some elevation, the higher the better, and lenthal was led not only by the examination.

would be able to go on and realize its ured by the versed sine of the arc, should be one-twelfth of the breadth of the wing, that there was nothing more fascinating than flying, while it offered infinitely more than flying, while it offered infinitely more opposite edge.

Wing was that whose convexity, as measured that the versed sine of the arc, should be one-twelfth of the breadth of the wing, or of the length of the cord connecting the opposite edge.

Which he imagined he was being carried gently to the clouds by some unseen force.

HOW FLIGHT INSPIRES AMBITION, "After leaving the ground," he says, one side or to the other, forward or back-that the machine be flown as a kite. A "the first thing you feel is a peculiar sen-ward, and the pressure of the air acting ward, and the pressure of the air acting the first thing you feel is a peculiar sen-ward, and the pressure of the air acting the first thing you feel is a peculiar sen-ward, and the pressure of the air acting the first thing you feel is a peculiar sen-ward, and the pressure of the air acting the first thing you feel is a peculiar sen-ward, and the pressure of the air. than flying, while it offered infinitely more opportunities for skillful manoeuvring than STEERS

Lillenthal is not after money. He seeks

suggestion, determined to test the machine changes in the equilibrium.

ments; are as practicable as athletics on the forearm and the hand and fingers of the ground.

The ground.

The process why there can't be posed largely of bones, muscles and tennote to the forearm and the hand and fingers of about aeronautics and aeroplanes, which is not very much, and absolutely nothing, of course, about manipulating a flying many many there can't be posed largely of bones, muscles and tennote to the following day. There is no reason why there can't be 100, 200, or even 300 yard dashes, far above the heads of spectators at Berkeley Oval of considerable physical force. The last follows:

| Dosed largely of bones, muscles and tendons, are comparatively heavy, and their chine. All he had to guide him were Lienthal's special directions, which are as follows:

| Mr. Bodine began the following day where Mr. Ver Beck left off. The wind lienthal's special directions, which are as follows: this Summer. Fleetness of wing should hereafter cut quite as important a figure in the world of sport as fleetness of foot.

Otto Lilienthal, of Berlin, who has acquired an international reputation as the quired an international reputation as the being at the greatest distance from the very streng. quired an international reputation as the being at the greatest distance from the very strong.

"flying man," is the inventor and maker of shoulder, or axis of motion, the chief proabout the only flying machine in the world pulsive force. The construction of each that files. After years of careful research member is peculiarly adapted to its special ward and raising the apparatus in front.

The latest trial was made the property of the property of

distances, provided a start is made from some elevation, the higher the better, and provided also the soaring is against the wind.

But this is as far as Lilienthal has got He has not been able to build a machine that will sail great distances or in every direction. He is far from supposing that his wings, although they afford the means of sailing and even of soaring in the air. his wings, although they afford the means of sailing and even of soaring in the air, to the ends of which surfaces of different ciples upon which an aeroplane glides the machine just right, raising it about possess all the delicate and subtle qualities kinds and degrees of curvature could be afnecessary to the perfection of the art of
fixed in any prequired position. The motive
perfmenters began operations on rules and
principles of their own, adopted especially
covered, when the wings gradually sank searches show that it is worth while to be exactly measured. There was also an for the occasion.

opposite edge.

STEERS BY A FAN-LIKE RUDDER.

Other leading features of the machine include a vertical rudder, shaped like a huge

Frank Ver Beck, the well-known artist, a moment and is succeeded by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but that played by a desire to the real rectangle of the stomach—a sensation of lightness—but the played by a desire to the rectangle of the stomach—a sensation of lightness—but that played by a desire to the rectangle of the stomach—a sensation of lightness—but the played by a desire to the rectangle of the stomach—a sensation of lightness—but the played by a desire to the rectangle of the stomach—a sensation of lightness—but the played by a desire to the rectangle of the stomach and lightness are rectangle of the stomach and lightne power, not profits. He only wants to have his studies of the mysteries of aerial navigation supplemented by others.

The Journal, acting upon Lilienthal's over the fan-like affair, to prevent sudden to prove the fan-like affair, to prevent sudden to the position between the wings temporarily vacated by Mr. Bound to the provent sudden to the sudden to the provent sudden to t

has been demonstrated by careful experi- parts, corresponding to the shoulder joint. He knew as much as the average man does have sourced at least 300 yards and landed

ward and raising the apparatus in front.

Fourth—Take great care in handling apmorning, and thus far it has been most such morning, and thus far it has been most such paratus at all times, especially while it is cessful, Mr. Bodin e flew, or rather soared, seventy-five yards. The course was due

nearer the earth. A landing was made

searches show that it is worth while to prosecute the investigations further.

ATHLETES APPEALED TO.

With this idea in view he called upon the athletes of the world to help him. He suggested that his machine already files well conugh to test the skill and endurance of the man who operates it, and that it presented a great opportunity in athletic sports. If he could secure, he said, its general adoption for such purposes, he would be able to go on and realize its

The Journal, acting upon interest and the grain of the step machine and discover if the claims of the inventor were well founded, so an order was given the German for a pair of his wings.

The apparatus was constructed according to the inventor's latest model, and it arrived in this country a week ago, it correctly the distance between Berlin and New York without sustaining a scratch. It resembles a gigantic sea guil. Open a mammoth umbrella and cut it squarely in half and you will have a fairly good representation of one of the flyer's wings. It is made almost entirely of closely woren muslin, washed with colleding to make the machine distance between the fan-like affair, to prevent sudden changes in the equilibrium.

The Start.

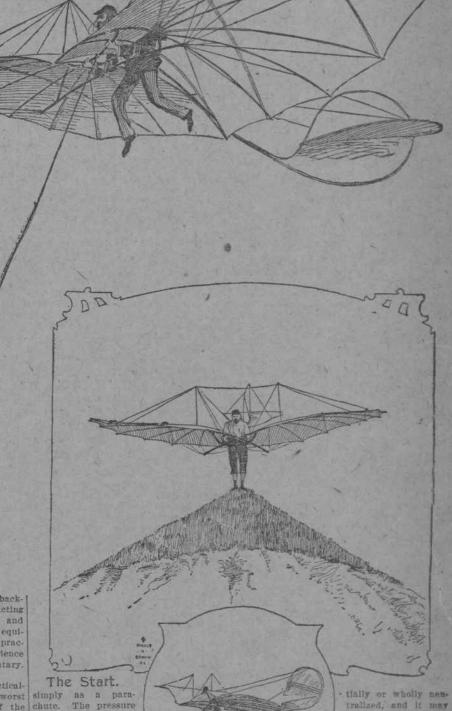
The strain there is not the least bit of fear. The only thing of so that can happen is the breaking of the machine down the hill. For about fifteen feet Mr. Ver Beck and the machine clump to the machine according to the liventor's latest model, and it arrived in this country a week ago, it correctly no danger. In case of a fall the words to try to keep affoat as long as you can. No that can happen is the breaking of the machine least bit of fear. The only thing of is to try to keep affoat a so long as you can. No that can happen is the breaking of the machine least bit of fear. The only thing of is of fear. The only thing of is to try to keep affoat a so long as you can. No that the air is a ferult here is not the least bit of fear. The only thing of a fear. The only thing of a fear the earth there is not the least bit of fear. The only thing of say ou can. No that can happen is the equilibrium.

Well forward between the two wings is a least of the tity to week a fear when the machine least bit of fear. The only thing of the machine the machine least bit of the try to keep affoat a wount. The machine clump to the pressure at the machine least bit of fear. The only thing of the machine least bit of fear. The only think that flying is an ideal sport, and that it is bound do become popul



Using the Plying-Machine

as a Kite.



The Landing. resentation of one of the flyer's wings. It is made aimost entirely of closely woven muslin, washed with collodion to render it impersious to air, and stretched upon a rib fram of split willow, which has been found to be the lightest and strongest manufacture. Then, not experiments.

Then, not experiments and legs in the invalid stationary in the air. Then, not experiments. In order to fully carry out Lillenthal's suggestion and the gradual gliding descent is retime from of split willow, which has been found to be the lightest and strongest manufacture.

The several seconds Mr. Ver Beck retime for several seconds Mr. Ver Beck retime from of split willow, which has been fully. He landed on his right wing, fractime from of split willow, which has been found to be the lightest and strongest manufacture.

The several seconds Mr. Ver Beck retime for second representation of the fall, but it is one of the
use of his grounds for the second representation of the stationary in the air manules of the second representation of the second representation of the fall,

happen, he finds, that one comes to a complete standstill eases, he saya, It is only necessary to. throw the centre of gravity so far back that the air shall not more powerfully on